

Figure 1



## Wild type 3' LTR sequence:

- I GAACAGATGG AACAGCTGAA TATGGGCCAA ACAGGATATC TGTGG TAAGC
- 51 AGTTCC TGCC CCGGCTCAGG GCCAAGAACA GATGGAACAG CTGAATATGG
- 101 GCCAAACAGG ATATCTGTGG TAAGCAGTTC CTGCCCCGGC TCAGGGCCAA
- 151 GAACAGATGG TCCCCAGATG CGGTCCAGCC CTCAGCAGTT TCTAGAGAAC
- 201 CATCAGATGT TTCCAGGGTG CCCCAAGGAC CTGAAATGAC CCTGTGCCTT
- 251 ATTTGAACTA ACCAATCAGT TCGCTTCTCG CTTCTGTTCG CGCGCTTCTG
- 301 CTCCCCGAGC TCAATAAAA

## Corresponding modified 3' LTR sequence from pENZ1 (modified sequences in bold italics):

- I ACGCTTGATC CGGCTACCTG CCCATTCGAC CACCAAGCGA AACATCGCAT
- 51 CGAGCGAGCA CGTACTCGGA TGGAAGCCGG TCTTGTCGAT CAGGATGATC
- 101 TGGACGAAGA GCATCAGGGG CTCGCGCCAG CCGAACTGTT CGCCAGGCTC
- 151 AAGGCGCGCA TGCCCGACGG CGAGGATCTC GTCGTGACTT TCTAGAGAAC
- 201 CATCAGATGT TTCCAGGGTG CCCCAAGGAC CTGAAATGAC CCTGTGCCTT
- 251 ATTTGAACTA ACCGGTCAGT TCGCTTCTCG CTTCTGTTCG CGCGCTTCTG
- 301 CTCCCCGAGC TCAGCTGCG



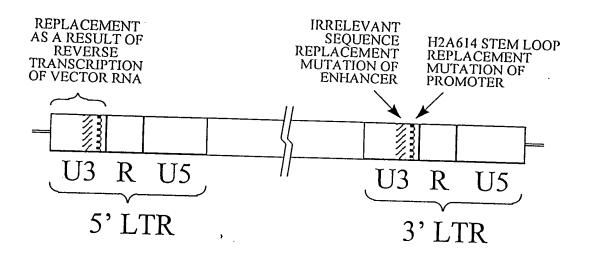


Figure 3



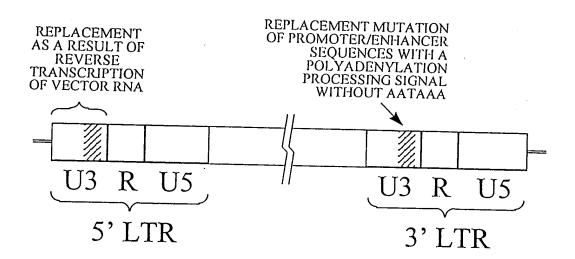


Figure 4



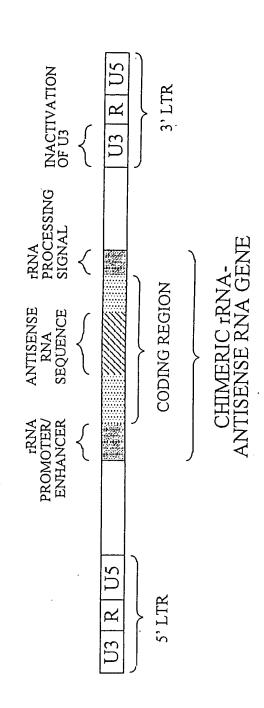


Figure 5



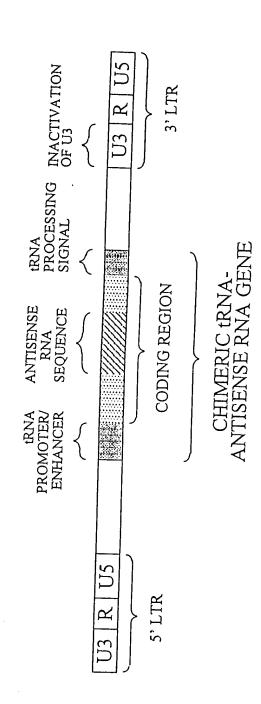


Figure 6



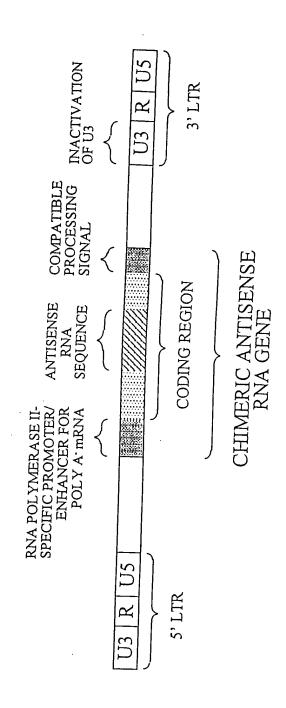


Figure 7



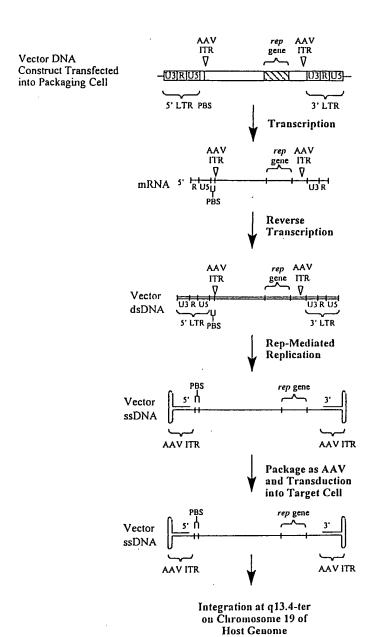


Figure 8



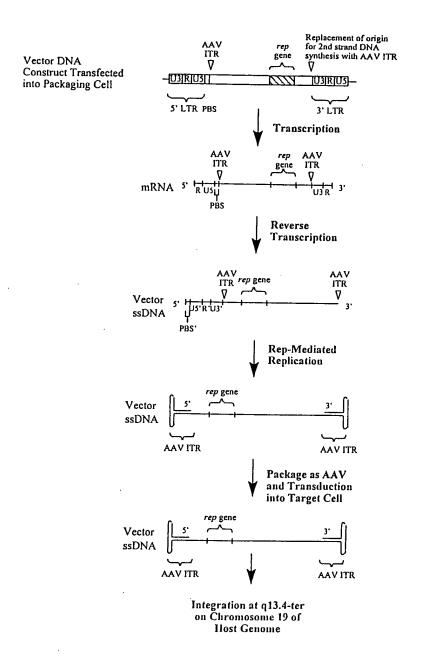


Figure 9



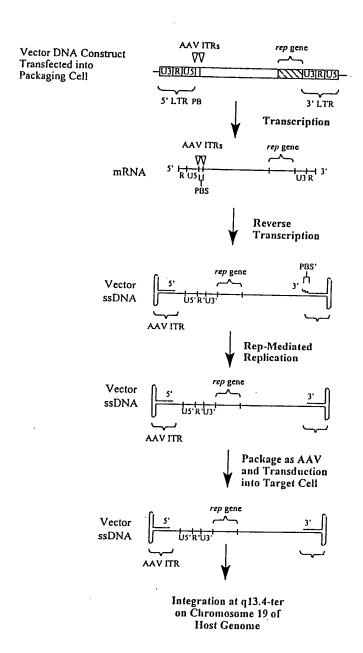


Figure 10



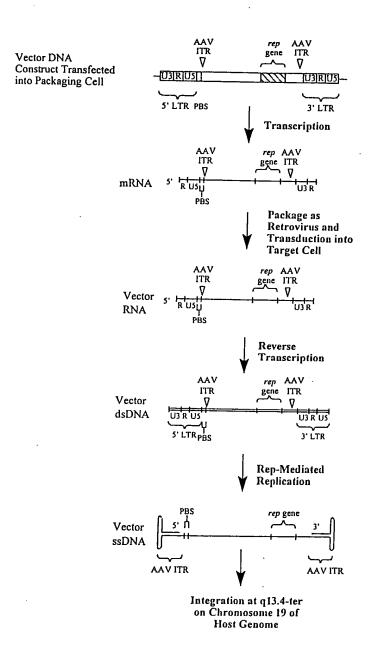


Figure 11



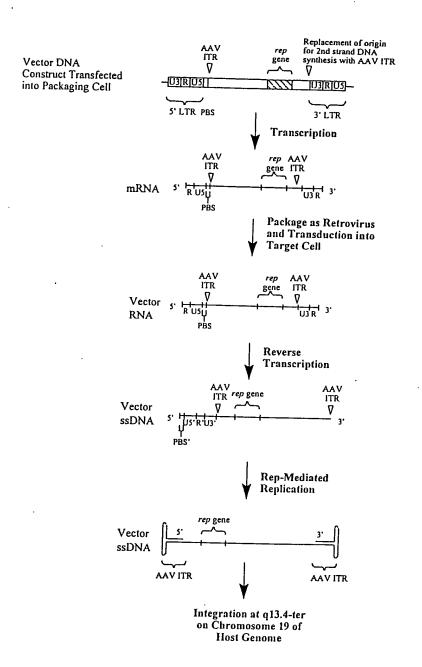


Figure 12



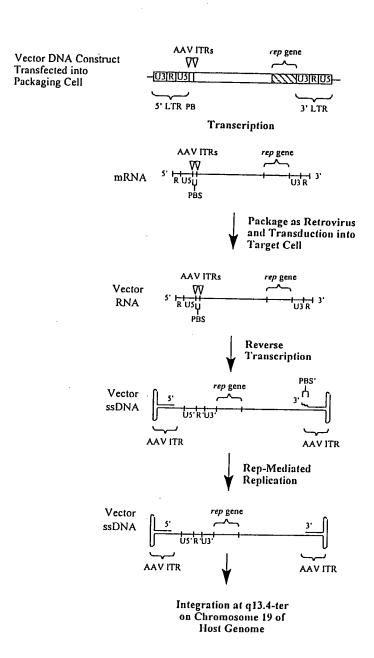


Figure 13